

AMENDMENTS TO THE CLAIMS:

Please cancel claim 34 without prejudice or disclaimer.

1. (Currently Amended) A wave-power unit for the production of electric power comprising a floating body and rotating electric generator mechanically connected to the floating body, ~~characterized in that~~ wherein a mechanical movement transmitting means is arranged for transmission of vertical movements of the floating body to rotary movements of the generator rotor, ~~in that the rotor is being~~ connected to a turning body, which turning body is connected to the movement transmitting means, and ~~in that the movement transmitting means (4) is secured by its upper end to the floating body (3) and by its lower end to the turning body (10) and in that at least the lower part of the movement transmitting means (4) consists of~~ includes a component that can be rolled up, e.g. a cable.

2. (Original) A wave-power unit as claimed in claim 1 ~~characterized in that~~ wherein at least the stator of the generator is enclosed in a housing anchored in the sea/lake bed.

3. (Original) A wave-power unit as claimed in claim 2, ~~characterized in that~~ wherein the rotor is also enclosed in the housing.

4. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-3~~ claim 1, ~~characterized in that~~ wherein the rotor is situated on the outside of the stator.

5. (Currently Amended) A wave-power unit as claimed in ~~any of claims 1-4~~ claim 1, ~~characterized in that~~ wherein the turning body is arranged outside the housing.

6. (Currently Amended) A wave-power unit as claimed in ~~any of claims 1-5~~ claim 1, ~~characterized in that it comprises~~ comprising a first gear mechanism effecting a gear change between the movements of the turning body and the rotor.

7. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-6~~ claim 1, ~~characterized in that~~ wherein the turning body (10) and the rotor (17) are arranged on a common, substantially horizontal shaft (9).

8. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-7~~ claim 1, ~~characterized in that~~ wherein the turning body (10) has circular cross section and in that the diameter of the rotor (17) is larger than the turning body (10).

9. (Original) A wave-power unit as claimed in claim 4, ~~characterized in that~~ wherein the movement transmitting means is secured by its upper end to the floating body and by its lower end to the rotor and in that at least the lower part of the movement transmitting means consists of a component that can be rolled up, ~~e.g. a cable~~.

10. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-9~~ claim 1, ~~characterized in that~~ wherein it is provided with spring means (15) arranged to exert a torsional force on the rotor ~~(10)~~.

11. (Original) A wave-power unit as claimed in claim 10, ~~characterized in that~~ wherein the spring rate of the spring means is adjustable.

12. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-11~~ claim 1, ~~characterized in that~~ wherein the housing (6, 8) comprises a base plate (8), which base plate is arranged to rest on the bed (1) of the sea/lake.

13. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-12~~ claim 1, ~~characterized in that~~ wherein the length of the movement transmitting means is adjustable.

14. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-13~~ claim 1, ~~characterized in that~~ wherein the housing is filled with a liquid.

15. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-14~~ claim 1, ~~characterized in that~~ wherein the housing is primarily made of concrete.

16. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-15~~ claim 1, ~~characterized in that~~ wherein the floating body is connected to a plurality of generators.

17. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-16~~ claim 1, ~~characterized in that~~ wherein the stator winding is connected to a rectifier, which rectifier is preferably arranged close to the generator below the surface of the water, preferably inside the housing.

18. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-17~~ claim 1, ~~characterized in that~~ wherein the generator is arranged to produce a voltage of varying frequency.

19. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-18~~ claim 1, ~~characterized in that~~ wherein the movement transmitting means comprises a second gear mechanism to effect a gear ratio of the vertical movement of the floating body.

20. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-19~~ claim 1, ~~characterized in that~~ wherein it comprises a free wheel arranged to convert oscillating rotary movement to unidirectional rotary movement.

21. (Currently Amended) A wave-power unit as claimed in ~~any one of claims 1-20~~ claim 1, ~~characterized in that~~ wherein the stator winding consists of a cable comprising a current conductor (31), a first semi-conducting layer (32) surrounding the conductor, an insulating layer (33) of solid insulation surrounding the first semi-conducting layer (32), and a second semi-conducting layer (34) surrounding the insulating layer (33).

22. (Currently Amended) A wave-power plant comprising a plurality of wave-power units as claimed in ~~any one of claims 1-21~~ claim 1, ~~characterized in that~~ wherein the stator winding of each wave-power unit is connected via a rectifier (22) to an inverter (23) which is common to a plurality of wave-power units, which inverter (23) is arranged to supply energy to an electric supply network.

23. (Original) A wave-power plant as claimed in claim 22, ~~characterized in that~~ wherein at least one electric switchgear station is connected to the wave-power unit, which switchgear station comprises a watertight container housing switchgear components, which container is anchored in the sea bed.

24. (Original) A wave-power plant as claimed in claim 23, ~~characterized in that~~ wherein a plurality of switchgear stations are connected to the wave-power unit, each switchgear station being connected to a number of wave-power units.

25. (Currently Amended) A wave-power plant as claimed in ~~claim 23 or claim 24~~ claim 23, ~~characterized in that~~ wherein each switchgear station is connected to a receiving station arranged on land.

26. (Currently Amended) A wave-power plant as claimed in ~~any one of claims 23-25~~ claim 23, characterized in that ~~wherein~~ at least one of the switchgear stations comprises a step-up transformer and/or an intermediate station comprising a step-up transformer.

27. (Currently Amended) A wave-power plant as claimed in ~~any one of claims 23-26~~ claim 23, characterized in that ~~wherein~~ at least one of the switchgear stations and/or the intermediate station comprises a converter.

28. (Currently Amended) A wave-power plant as claimed in ~~any one of claims 23-27~~ claim 23, characterized in that ~~wherein~~ at least one of the switchgear stations and/or the intermediate station comprises means for storing energy.

29. (Currently Amended) A wave-power plant as claimed in ~~any one of claims 27-28~~ claim 27, characterized in that ~~wherein~~ at least one of the switchgear stations and/or the intermediate station comprises filtering means for filtering outgoing and/or incoming current and voltage.

30. (Currently Amended) A wave-power plant as claimed in ~~any one of claims 23-29~~ claim 23, characterized in that ~~wherein~~ at least one of the switchgear stations and/or the intermediate station is filled with non-corrosive, buffered liquid.

31. (Currently Amended) A wave-power plant as claimed in ~~any one of claims 22-30~~ claim 22, characterized in that ~~wherein~~ a filter and/or a transformer is/are arranged after the inverter.

32. (Original) A wave-power plant as claimed in claim 22, ~~characterized in that wherein~~ the inverter, filter and/or transformer is/are arranged on land.

33. (Currently Amended) A wave-power plant as claimed in ~~any one of claims 22-32~~ claim 22, characterized in that ~~wherein~~ each wave-power unit is connected to the inverter via a cable arranged on or close to the sea or lake bed.

34. (Cancelled)

35. (Original) A method of generating electric power by mechanically connecting a floating body to a rotating electric generator, ~~characterized in that wherein~~ the mechanical movement transmitting means is arranged to transmit vertical movements of the

floating body to rotary movements of the generator rotor, ~~that the rotor is connected to a turning body, which turning body is connected to the movement transmitting means, which~~ said movement transmitting means is being secured by its upper end to the floating body and by its lower end to the turning body, and in that at least the lower part of the movement transmitting means consist of a component that can be rolled up, ~~e.g. a cable.~~

36. (Currently Amended) A method as claimed in claim 35, ~~characterized in that~~ wherein the method is utilized while making use of a wave-power unit ~~as claimed in any one of claims 1-21.~~

37. (Original) A method as claimed in claim 36, ~~characterized in that~~ wherein the spring means with adjustable spring rate is applied to exert a torsional force on the rotor and in that the spring means is adjusted so that resonance is obtained with the movement of the floating body that is estimated to occur for most of the time.

38. (Currently Amended) A method as claimed ~~in any one of claims 35-37~~ claim 35, ~~characterized in that~~ wherein the energy generated is conducted to a switchgear station, the components of which are arranged in a watertight container, which container is anchored in the sea bed.

39. (Original) A method as claimed in claim 38, ~~characterized in that~~ wherein the switchgear station is connected to a receiving station arranged on land.

40. (Original) A method as claimed in claim 39, ~~characterized in that~~ wherein a plurality of switchgear stations are connected to a common intermediate station, which intermediate station is connected to the receiving station.

41. (Currently Amended) A method as claimed ~~in any one of claims 38-40~~ claim 38, ~~characterized in that~~ wherein at least one of the switchgear stations and/or the receiving station is/are arranged below the surface of the water, preferably close to the sea bed.

42. (Currently Amended) A method as claimed ~~in any one of claims 38-41~~ claim 38, ~~characterized in that~~ wherein voltage generated is step-up transformed in at least one of the switchgear stations and/or the intermediate station.

43. (Currently Amended) A method as claimed in ~~any one of claims 38-42~~ claim 38, ~~characterized in that~~ wherein the outgoing voltage from at least one of the switchgear stations and/or from the intermediate station is alternating voltage.